Claims

1. Device for adjusting contact pressure exerted on an adjacent rotational body (12; 13; 14; 16; 17) by a roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or for engaging said roller (04; 06; 07; 08; 09; 11) on the rotational body (12; 13; 14; 16; 17) and/or for disengaging said roller (04; 06; 07; 08; 09; 11) from the rotational body (12; 13; 14; 16; 17),
wherein both ends (18) of the same roller (04; 06; 07; 08; 09; 11) that is adjustable in terms of contact pressure and/or its position can be changed, and/or at least one end (18) of two different rollers (04; 06; 07; 08; 09; 11) that are each adjustable in terms of contact pressure and/or their position can be changed, are seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein each of these support bearings (21) has at least one actuator (22) that acts on the roller (04; 06; 07; 08; 09; 11),
characterized in that at least one actuator (22) in a support bearing (21) is controlled by a control unit, separately and independently of an actuator (22) in another support bearing (21).

2. Device according to claim 1, characterized in that each actuator (22) can be pressurized with a pressure medium.

3. Device according to claim 1 or 2, characterized in that a controllable device is allocated to each support bearing (21) that has at least one controllable actuator (22), wherein said control unit activates the actuator (22) by means of the controllable device.

4. Device according to claim 3, characterized in that the controllable device applies pressure to multiple actuators (22) in the same support bearing (21), in each case synchronously, at a first pressure level (42) in a first operational position and at a second pressure level (42) in a second operational position.

5. Device according to claim 4, characterized in that in both operational positions the pressure level (42) that exists at the actuators (22) at any given time is different from zero for at least one of the actuators (22) in the same support bearing (21).

6. Device for adjusting contact pressure exerted on an adjacent rotational body (12; 13; 14; 16; 17) by a roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or for engaging said roller (04; 06; 07; 08; 09; 11) on

the rotational body (12; 13; 14; 16; 17) and/or for disengaging said roller (04; 06; 07; 08; 09; 11) from the rotational body (12; 13; 14; 16; 17),
wherein both ends (18) of the same roller (04; 06; 07; 08; 09; 11) that is adjustable in terms of contact pressure and/or its position can be changed, and/or at least one end (18) of two different rollers (04; 06; 07; 08; 09; 11) that are each adjustable in terms of contact pressure and/or their position can be changed, are each seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein each of these support bearings (21) has multiple actuators (22) that act upon the respective roller (04; 06; 07; 08; 09; 11) and can be pressurized by a pressure medium, characterized in that a controllable device is allocated to each support bearing (21), wherein said controllable device applies pressure to multiple actuators (22) in the same support bearing (21), in each case synchronously, in each case at a first pressure level (42) in a first operational position and at a second pressure level (42) in a second operational position, wherein in both operational positions the pressure level (42) that exists at the actuators (22) in each case is different from zero for at least one of the actuators (22) in the same support bearing (21).

7. Device according to claim 4 or 6, characterized in that for different actuators (22) in the same support bearing (21), the first pressure level (42) present there at any given time and the respective second pressure level (42) differ from one another.

8. Device according to claim 4, 6 or 7, characterized in that the second pressure level (42) differs from the first pressure level (42).

9. Device according to claim 1, 3 or 6, characterized in that multiple rollers (04; 06; 07; 08; 09; 11) that are each seated in support bearings (21) and are activated via actuators (22) are provided, wherein at least two support bearings (21) have an identifying element n, wherein the controllable device that is allocated to each support bearing (21) can in each case be selected using said identifying element n.

10. Device according to claim 1 or 6, characterized in that at different ends (18) of the same roller (04; 06; 07; 08; 09; 11) contact pressures that differ in value are set.

11. Device according to claim 1 or 6, characterized in that each actuator (22) in the same support bearing (21) exerts a radial force (Fn1; Fn2; Fn3; Fn4) directed toward its support bearing (21).

12. Device according to claim 11, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) and/or at least a portion of a force of weight exerted by the roller (04; 06; 07; 08; 09; 11) exert in their vector sum the contact pressure that is exerted on the adjacent rotational body (12; 13; 14; 16; 17) by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), and/or displace said roller (04; 06; 07; 08; 09; 11) essentially radially.

13. Device according to claim 1 or 6, characterized in that the roller (04; 06; 07; 08; 09; 11) and the rotational body (12; 13; 14; 16; 17) are arranged in a printing couple (01) of a printing machine.

14. Device according to claim 13, characterized in that in the printing couple (01) of the printing machine multiple rollers (04; 06; 07; 08; 09; 11) and/or multiple rotational bodies (12; 13; 14; 16; 17) are provided.

15. Device according to claim 6, characterized in that a control unit is provided.

16. Device according to claim 1 or 15, characterized in that the control unit calculates the current value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure exerted by at least one of the rollers (04; 06; 07; 08; 09; 11) in at least one of the roller strips (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), from the radial forces (Fn1; Fn2; Fn3; Fn4) being exerted at a given time by actuators (22) in the same support bearing (21) and/or from at least a portion of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11).

17. Device according to claim 1 or 15, characterized in that the control unit is allocated to the printing machine or to the printing couple (01).

18. Device according to claim 1 or 6, characterized in that the rotational body (12; 13; 14; 16; 17) is designed as a forme cylinder (12).

19. Device according to claim 17, characterized in that at least one opening that opens up a channel in the forme cylinder (12) is formed on the circumferential surface of the forme cylinder (12).

20. Device according to claim 1 or 15, characterized in that the control unit adjusts the value FN11; FN21; FN31 of the contact pressure in a roller strip (N11; N21; N31) formed by the forme cylinder (12) to a new value FN11; FN21; FN31 when the opening in the channel and said roller strip (N11; N21; N31) have no common overlapping surface.

21. Device according to claim 1 or 6, characterized in that the rotational body (12; 13; 14; 16; 17) is designed as a supplementary roller (13; 14; 16; 17).

22. Device for adjusting contact pressure exerted by a roller (04; 06; 07) in a roller strip (N11; N12; N21) on an adjacent forme cylinder (12) and/or for engaging said roller (04; 06; 07) on the forme cylinder (12) and/or for disengaging said roller (04; 06; 07) from the forme cylinder (12),
wherein at least one end (18) of the roller (04; 06; 07) is seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein the support bearing (21) has at least one actuator (22) that acts upon the roller (04; 06; 07),
characterized in that a control unit adjusts the value FN11; FN21; FN31 of the contact pressure in a roller strip (N11; N21; N31) formed by the forme cylinder (12) to a new value FN11; FN21; FN31 when an opening in a channel in the forme cylinder (12), which is formed on the circumferential surface of the forme cylinder (12), and this roller strip (N11; N21; N31) have no common overlapping surface.

23. Device according to claim 22, characterized in that both ends (18) of the roller (04; 06; 07) are seated in a support bearing (21) having a roller mount (39) that is capable of radial travel.

24. Device according to claim 1, 22 or 23, characterized in that the control unit calculates the radial forces (Fn1; Fn2; Fn3; Fn4) to be exerted by actuators (22) in the same support bearing (21) for a contact pressure that is to be adjusted to a specific value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62.

25. Device according to claim 22 or 23, characterized in that the actuators (22) exert their radial force (Fn1; Fn2; Fn3; Fn4) in each case as a result of pressurization with a pressure medium.

26. Device according to claim 22 or 23, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) and/or at least a portion

of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11) displace the roller (04; 06; 07; 08; 09; 11) essentially radially.

27. Device according to claim 1, 15 or 22, characterized in that the control unit adjusts the radial forces (Fn1; Fn2; Fn3; Fn4) to be exerted by the actuators (22) to their respective value by means of controllable proportional valves (EP1; EP2; EP3; EP4) and/or other controllable valves (EP5; EP6).

28. Device according to claim 1, 6 or 22, characterized in that an identifying element m is assigned to each actuator (22) that is part of a support bearing (21).

29. Device according to claim 1, 15 or 22, characterized in that the control unit calculates the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) taking into account the distance from a center point of the roller (04; 06; 07; 08; 09; 11) engaged on the rotational body (12; 13; 14; 16; 17) to a center point of said rotational body (12; 13; 14; 16; 17) that is in the same transverse plane, and/or taking into account a surface pressure exerted by the pressure of the pressure medium in at least one of the actuators (22), and/or taking into account at least a portion of the force of weight calculated by multiplying the gravitational constants by the mass of the roller (04; 06; 07; 08; 09; 11).

30. Device according to claim 1, 15 or 22, characterized in that the control unit is equipped with a display device and with at least one control element, wherein the display device, in response to a request input via the control element, displays the relevant value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure exerted in at least one roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or the relevant value of at least one radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22), or of a pressure of the pressure medium that is present at at least one actuator (22) and corresponds to said radial force (Fn1; Fn2; Fn3; Fn4).

31. Device according to claim 30, characterized in that at least one value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure displayed by the display device can be at least gradually changed.

32. Device according to claim 31, characterized in that after a change in the displayed value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the

contact pressure to said value (FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62), the control unit calculates the radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in said roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62).

33. Device according to claim 31, characterized in that, after the change in the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure implemented on the display device via the control element, with a corresponding request, the control unit sets this new value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

34. Device according to claim 31, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62, which has been changed on the display device, of the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) when the printing couple (01) is running, by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

35. Device according to claim 31, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62, which has been changed on the display device, of the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) when the rotational speed of the roller (04; 06; 07; 08; 09; 11) is at least 3,000 revolutions per hour, by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

36. Device according to claim 33, characterized in that the control unit displays on the display device a newly calculated value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure exerted by at least one roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), said value having been calculated from the radial forces (Fn1; Fn2; Fn3; Fn4) newly adjusted at the actuators (22) and/or from at least a portion of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11).

37. Device according to claim 1, 6 or 22, characterized in that each support bearing (21) has a controllable fixation device, wherein in a first operational position said fixation device blocks an essentially radial displacement of the roller (04; 06; 07; 08; 09; 11) caused by the actuators (22), and in a second operational position enables said displacement.

38. Device according to claim 37, characterized in that the operational position of the fixation device of support bearings (21) connected to the same roller (04; 06; 07; 08; 09; 11) switches at the same time.

39. Device according to claim 37, characterized in that a change in the operational position of the fixation device is controlled by the control unit by means of at least one valve (V15; V25; V35; V45; V55; V65).

40. Device according to claim 1, 6 or 22, characterized in that the roller (04; 06; 07; 08; 09; 11) forms a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) with each of multiple rotational bodies (12; 13; 14; 16; 17) at the same time.

41. Device according to claim 1, 6 or 22, characterized in that the roller (04; 06; 07; 08; 09; 11) forms a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) with at least one additional roller (04; 06; 07; 08; 09; 11).

42. Device according to claim 1, 6 or 22, characterized in that the roller (04; 06; 07; 08; 09; 11) and the rotational body (12; 13; 14; 16; 17) are components of an inking unit (02) or a dampening unit (03) of the printing couple (01) in the printing machine.

43. Device according to claim 13, characterized in that it is arranged in a printing machine designed as a newspaper printing press.

44. Device according to claim 18 or 22, characterized in that the forme cylinder (12) is covered in its axial direction with multiple printing formes.

45. Device according to claim 44, characterized in that four or six printing formes are arranged on the forme cylinder (12) when it is completely covered with printing formes in an axial direction.

46. Device according to claim 6 or 22, characterized in that pressure exerted by a pressure medium in one of the actuators (22) can be adjusted independently of the pressure in another actuator (22) in the same support bearing (21).

47. Device according to claim 1, 6 or 22, characterized in that each support bearing (21) has multiple actuators (22) in one housing.

48. Device according to claim 1, 6 or 22, characterized in that the actuators (22) in each support bearing (21) are arranged such that they are non-rotatable relative to the support bearing (21).

49. Device according to claim 47, characterized in that in the housing of each support bearing (21), its actuators (22) are arranged distributed in a circular pattern around the axis (19) of the roller (04; 06; 07; 08; 09; 11).

50. Device according to claim 49, characterized in that the actuators (22) in each support bearing (21), in their circular distribution, are assigned the identifying element m in a fixed sequence.

51. Device according to claim 50, characterized in that in different support bearings (21) actuators (22) arranged at the same position are assigned the same identifying element m.

52. Device according to claim 28, characterized in that actuators (22) that belong to different support bearings (21) but have the same identifying element m are pressurized at the same pressure level (42) by means of a parallel connection of their pressure medium conduits (41).

53. Device according to claim 28, characterized in that actuators (22) that belong to the same support bearing (21) but have different identifying elements m are connected via their pressure medium conduit (41) to different pressure levels (42).

54. Device according to claim 1, 6 or 22, characterized in that support bearings (21) that are connected to the same roller (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

55. Device according to claim 1, 6 or 22, characterized in that the support bearings (21) of multiple rollers (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

56. Device according to claim 1, 6 or 22, characterized in that the support bearings (21) of all rollers (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

57. Device according to claim 1, 6 or 22, characterized in that the pressure medium is compressed air.

58. Device according to claim 1, 6 or 22, characterized in that the actuator (22) is designed as a tubular component without a piston rod.

59. Device according to claim 58, characterized in that the tubular component is at least partially made of an elastomeric material.

60. Device according to claim 1, 15 or 22, characterized in that the actuators (22) can be remotely activated via the control unit.

61. Device according to claim 1, 6 or 22, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle α with one another.

62. Device according to claim 1, 6 or 22, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle (α) with one another that differs from 0° and from 180°.

63. Device according to claim 1, 6 or 22, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle (α) with one another that measures between 45° and 135°.

64. Device according to claim 1, 6 or 22, characterized in that actuators (22) in support bearings (21) that are connected to the same roller (04; 06; 07; 08; 09; 11) exert a contact pressure in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) that differs in its respective value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 at the two ends (18) of said roller (04; 06; 07; 08; 09; 11).

65. Device according to claim 64, characterized in that the contact pressure that differs in its respective value FN11; FN12; FN21; FN22; FN31; FN32 at the two ends (18) of the roller (04; 06; 07) is adjusted when the forme cylinder (12), which can be covered with multiple printing formes in its axial direction, is not completely covered with printing formes in its axial direction.

66. Device according to claim 1, 6 or 22, characterized in that each support bearing (21) that has an actuator (22) is assigned an identifying element n.

67. Device according to claims 28 and 66, characterized in that the identifying element n for the support bearing (21) and the identifying element m for the actuator (22) together form an identification code nm.

68. Device according to claim 67, characterized in that the identification code nm is machine readable.

69. Device according to claim 1, 6 or 22, characterized in that each roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) is designated.

70. Device according to claim 69, characterized in that using the control element of the control element, the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) that has been selected using its designator can be adjusted.

71. Device according to claim 1, 15 or 22, characterized in that the control unit is designed as a mobile component.

72. Device according to claim 1, 15 or 22, characterized in that the control unit is connected to the controllable device only when the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of a contact pressure exerted in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) is to be changed.

73. Device according to claim 1, 15 or 22, characterized in that the control unit is connected to the controllable device only when at least one of the valves (EP1; EP2; EP3; EP4; EP5; EP6; V15; V25; V35; V45; V55; V65) is to be controlled.

74. Device according to claim 73, characterized in that the valves (EP1; EP2; EP3; EP4; EP5; EP6; V15; V25; V35; V45; V55; V65) to be controlled by the control unit are electrically or electromagnetically actuated.

75. Device according to claims 1, 15 and 22, characterized in that, in order to set the new value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure exerted in a selected roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), the control unit first uses at least one of the valves (V15; V25; V35; V45; V55; V65) to actuate the fixation device of the respective support bearing (21) in which the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) is to be set to a new value, so that the adjustable roller (04; 06; 07; 08; 09; 11) that is seated in this support bearing (21) can be radially displaced,
in that the control unit then actuates at least one of the proportional valves (EP1; EP2; EP3; EP4) and/or at least one of the valves (EP5; EP6), in order to set the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) in the relevant support bearing (21) to the new value,
and in that afterward the control unit again actuates the at least one previously actuated valve (V15; V25; V35; V45; V55; V65) in order to shift the fixation device of the respective support bearing (21), in which the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) has been adjusted to the calculated new value, to the operational position in which the roller (04; 06; 07; 08; 09; 11) that is seated in this support bearing (21) can no longer be radially displaced.

76. Device according to claim 1, 15 or 22, characterized in that the control unit is equipped with a memory device.

77. Device according to claim 76, characterized in that at least one set of values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 is stored in the memory device of the control unit as a standard configuration, with each value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 corresponding to a contact pressure that is exerted by a roller (04; 06; 07; 08; 09; 11) in this printing couple (01) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on a rotational body (12; 13; 14; 16; 17) that is adjacent to the respective roller (04; 06; 07; 08; 09; 11).

78. Device according to claim 77, characterized in that the values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the standard configuration

generate on the circumference of the roller (04; 06; 07; 08; 09; 11) and/or of the rotational body (12; 13; 14; 16; 17) a flattening that corresponds to a target value for the width of each roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), in order to achieve a high level of quality for the printed product to be produced using the printing couple (01).

79. Device according to claim 1, 15 or 22, characterized in that adjusted values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 can be reset by the control unit to the values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the standard configuration.

80. Device according to claim 1, 6 or 22, characterized in that the roller (04; 06; 07; 08; 09; 11) and/or its adjacent rotational body (12; 13; 14; 16; 17) have an elastically deformable circumferential surface.

81. Device according to claim 1, 15 or 22, characterized in that in the control unit, groups of simultaneously adjustable values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 are formed.

82. Device according to claim 81, characterized in that the groups concern rollers (06; 07; 09; 11) in the inking unit (02) or rollers (04; 08) in the dampening unit (03).

83. Device according to claim 81, characterized in that the groups concern forme rollers (04; 06; 07) that operate in conjunction with the forme cylinder (12).

84. Device according to claim 3 or 6, characterized in that multiple rollers (04; 06; 07; 08; 09; 11), each seated in support bearings (21), are provided, with each support bearing (21) being assigned an identifying element n, wherein the controllable device that is allocated to each support bearing (21) can be selected in each case using the identifying element n.

85. Device according to claim 1 or 22, characterized in that the control unit controls each actuator (22) separately and independently of other actuators (22).

86. Device according to claim 1, characterized in that at least each roller (04; 06; 07) that operates directly in conjunction with a forme cylinder (12) has at least one actuator (22),

which is controlled independently of the other actuators (22) of the rollers (04; 06; 07) that operate directly in conjunction with the forme cylinder (12).

87. Device according to claim 86, characterized in that at least three rollers (04; 06; 07) that operate directly in conjunction with the forme cylinder (12) are arranged, and in that each of these rollers (04; 06; 07) has at least one independently controlled actuator (22).

88. Device according to claim 1, 15 or 22, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressures of all rollers (04; 06; 07; 08; 09; 11) that are to be adjusted in terms of their respective contact pressure, within a period of less than one minute.

89. Device according to claim 1, 15 or 22, characterized in that the actuators (22) exert the respective contact pressure on the basis of a hydraulic, electric, motor-driven or piezoelectric action.

AMENDED CLAIMS

[received by the international office on 11 July 2005 (07/11/05):
original claims 1-89 are replaced by amended claims 1-86]

1. Device for adjusting contact pressure exerted on an adjacent rotational body (12; 13; 14; 16; 17) by a roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or for engaging said roller (04; 06; 07; 08; 09; 11) on the rotational body (12; 13; 14; 16; 17) and/or for disengaging said roller (04; 06; 07; 08; 09; 11) from the rotational body (12; 13; 14; 16; 17),
wherein the two ends (18) of the same roller (04; 06; 07; 08; 09; 11) that is adjustable in terms of contact pressure and/or its position can be changed, and/or at least one end (18) of two different rollers (04; 06; 07; 08; 09; 11) that are each adjustable in terms of contact pressure and/or their position can be changed, are seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein each of these support bearings (21) has at least one actuator (22) that acts on the roller (04; 06; 07; 08; 09; 11),
wherein at least one actuator (22) in a support bearing (21) is controlled by a control unit, separately and independently of an actuator (22) in another support bearing (21),
characterized in that the control unit calculates the respective value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure exerted by at least one of the rollers (04; 06; 07; 08; 09; 11) in at least one of the roller strips (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), from radial forces (Fn1; Fn2; Fn3; Fn4) exerted at the time by actuators (22) in the same support bearing (21) and/or from at least a portion of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11), wherein each roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) is designated, wherein by means of an control element of the control unit, the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) that is selected using its designator can be changed.

2. Device according to claim 1, characterized in that the actuators (22) can be pressurized with a pressure medium.

3. Device according to claim 1 or 2, characterized in that a controllable device is allocated to each support bearing (21) that has at least one controllable actuator (22), wherein said control unit activates the actuator (22) by means of the controllable device.

4. Device according to claim 3, characterized in that the controllable device applies pressure to multiple actuators (22) in the same support bearing (21), in each case synchronously, at a first pressure level (42) in a first operational position and at a second pressure level (42) in a second operational position.

5. Device according to claim 4, characterized in that in both operational positions the pressure level (42) that exists at the actuators (22) at any given time is different from zero for at least one of the actuators (22) in the same support bearing (21).

6. Device according to claim 4, characterized in that for different actuators (22) in the same support bearing (21), the first pressure level (42) present there at any given time and the second pressure level (42) present there differ from one another.

7. Device according to claim 4 or 6, characterized in that the second pressure level (42) differs from the first pressure level (42).

8. Device according to claim 1 or 3, characterized in that multiple rollers (04; 06; 07; 08; 09; 11) that are each seated in support bearings (21) and are activated via actuators (22) are provided, wherein at least two support bearings (21) have an identifying element n, wherein the controllable device that is allocated to each support bearing (21) can in each case be selected using said identifying element n.

9. Device according to claim 1, characterized in that at different ends (18) of the same roller (04; 06; 07; 08; 09; 11) contact pressures that differ in value are set.

10. Device according to claim 1, characterized in that each actuator (22) in the same support bearing (21) exerts a radial force (Fn1; Fn2; Fn3; Fn4) directed toward its support bearing (21).

11. Device according to claim 10, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) and/or at least a portion of a force of weight exerted by the roller (04; 06; 07; 08; 09; 11) exert in their vector sum the contact pressure that is exerted on the adjacent rotational body (12; 13; 14; 16; 17) by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), and/or displace said roller (04; 06; 07; 08; 09; 11) essentially radially.

12. Device according to claim 1, characterized in that the roller (04; 06; 07; 08; 09; 11) and the rotational body (12; 13; 14; 16; 17) are arranged in a printing couple (01) of a printing machine.

13. Device according to claim 12, characterized in that in the printing couple (01) of the printing machine multiple rollers (04; 06; 07; 08; 09; 11) and/or multiple rotational bodies (12; 13; 14; 16; 17) are provided.

14. Device according to claim 1, characterized in that the control unit is allocated to the printing machine or the printing couple (01).

15. Device according to claim 1, characterized in that the rotational body (12; 13; 14; 16; 17) is designed as a forme cylinder (12).

16. Device according to claim 14, characterized in that at least one opening that opens up a channel in the forme cylinder (12) is formed on the circumferential surface of the forme cylinder (12).

17. Device according to claim 1, characterized in that the control unit adjusts the value FN11; FN21; FN31 of the contact pressure in a roller strip (N11; N21; N31) formed by the forme cylinder (12) to a new value FN11; FN21; FN31 when the opening in the channel and said roller strip (N11; N21; N31) have no common overlapping surface.

18. Device according to claim 1, characterized in that the rotational body (12; 13; 14; 16; 17) is designed as a supplementary roller (13; 14; 16; 17).

19. Device according to claim 1, characterized in that the control unit calculates the radial forces (Fn1; Fn2; Fn3; Fn4) to be exerted by actuators (22) in the same support bearing (21) for a contact pressure to be adjusted to a specific value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62.

20. Device according to claim 1, characterized in that the control unit adjusts the radial forces (Fn1; Fn2; Fn3; Fn4) to be exerted by the actuators (22) to their respective value by means of controllable proportional valves (EP1; EP2; EP3; EP4) and/or other controllable valves (EP5; EP6).

21. Device according to claim 1, characterized in that an identifying element m is assigned to each actuator (22) that is part of a support bearing (21).

22. Device according to claim 1, characterized in that the control unit calculates the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) taking into account the distance from a center point of the roller (04; 06; 07; 08; 09; 11) engaged on the rotational body (12; 13; 14; 16; 17) to a center point of said rotational body (12; 13; 14; 16; 17) that is in the same transverse plane, and/or taking into account a surface pressure exerted by the pressure of the pressure medium in at least one of the actuators (22), and/or taking into account at least a portion of the force of weight calculated by multiplying the gravitational constants by the mass of the roller (04; 06; 07; 08; 09; 11).

23. Device according to claim 1, characterized in that the control unit has a display device in addition to the at least one control element, wherein the display device, in response to a request input via the control element, displays the relevant value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure exerted in at least one roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or the relevant value of at least one radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22), or of a pressure of the pressure medium that is present at at least one actuator (22) and corresponds to said radial force (Fn1; Fn2; Fn3; Fn4).

24. Device according to claim 23, characterized in that at least one value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure displayed by the display device can be at least gradually changed.

25. Device according to claim 24, characterized in that after a change in the displayed value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure to said value (FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62), the control unit calculates the radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in said roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62).

26. Device according to claim 24, characterized in that, after the change in the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure implemented on the display device via the control element, with a

corresponding request, the control unit sets this new value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

27. Device according to claim 24, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62, which has been changed on the display device, of the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), when the printing couple (01) is running, by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

28. Device according to claim 24, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62, which has been changed on the display device, of the contact pressure exerted by the roller (04; 06; 07; 08; 09; 11) in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) when the rotational speed of the roller (04; 06; 07; 08; 09; 11) is at least 3,000 revolutions per hour by controlling the controllable valves (EP1; EP2; EP3; EP4; EP5; EP6).

29. Device according to claim 26, characterized in that the control unit displays on the display device a newly calculated value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure exerted by at least one roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), said value having been calculated from the radial forces (Fn1; Fn2; Fn3; Fn4) newly adjusted at the actuators (22) and/or from at least a portion of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11).

30. Device according to claim 1, characterized in that each support bearing (21) has a controllable fixation device, wherein in a first operational position said fixation device blocks an essentially radial displacement of the roller (04; 06; 07; 08; 09; 11) caused by the actuators (22), and in a second operational position enables said displacement.

31. Device according to claim 30, characterized in that the operational position of the fixation device of the support bearings (21) connected to the same roller (04; 06; 07; 08; 09; 11) switches at the same time.

32. Device according to claim 30, characterized in that a change in the operational position of the fixation device is controlled by the control unit by means of at least one valve (V15; V25; V35; V45; V55; V65).

33. Device according to claim 1, characterized in that the roller (04; 06; 07; 08; 09; 11) forms a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) with each of multiple rotational bodies (12; 13; 14; 16; 17) at the same time.

34. Device according to claim 1, characterized in that the roller (04; 06; 07; 08; 09; 11) forms a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) with at least one additional roller (04; 06; 07; 08; 09; 11).

35. Device according to claim 1, characterized in that the roller (04; 06; 07; 08; 09; 11) and the rotational body (12; 13; 14; 16; 17) are components of an inking unit (02) or a dampening unit (03) of the printing couple (01) in the printing machine.

36. Device according to claim 12, characterized in that it is arranged in a printing machine designed as a newspaper printing press.

37. Device according to claim 15, characterized in that the forme cylinder (12) is covered in its axial direction with multiple printing formes.

38. Device according to claim 37, characterized in that four or six printing formes are arranged on the forme cylinder (12) when it is completely covered with printing formes in an axial direction.

39. Device according to claim 1, characterized in that each support bearing (21) has multiple actuators (22) in one housing.

40. Device according to claim 1, characterized in that the actuators (22) in each support bearing (21) are arranged such that they are non-rotatable relative to the support bearing (21).

41. Device according to claim 39, characterized in that in the housing of each support bearing (21), its actuators (22) are arranged distributed in a circular pattern around the axis (19) of the roller (04; 06; 07; 08; 09; 11).

42. Device according to claim 41, characterized in that the actuators (22) in each support bearing (21), in their circular distribution, are assigned the identifying element m in a fixed sequence.

43. Device according to claim 42, characterized in that in different support bearings (21) actuators (22) arranged at the same position are assigned the same identifying element m.

44. Device according to claim 21, characterized in that actuators (22) that belong to different support bearings (21) but have the same identifying element m are pressurized at the same pressure level (42) by means of a parallel connection of their pressure medium conduits (41).

45. Device according to claim 21, characterized in that actuators (22) that belong to the same support bearing (21) but have different identifying elements m are connected via their pressure medium conduit (41) to different pressure levels (42).

46. Device according to claim 1, characterized in that support bearings (21) that are connected to the same roller (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

47. Device according to claim 1, characterized in that the support bearings (21) of multiple rollers (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

48. Device according to claim 1, characterized in that the support bearings (21) of all rollers (04; 06; 07; 08; 09; 11) have the same number of actuators (22).

49. Device according to claim 1, characterized in that the pressure medium is compressed air.

50. Device according to claim 1, characterized in that the actuator (22) is designed as a tubular component without a piston rod.

51. Device according to claim 50, characterized in that the tubular component is at least partially made of an elastomeric material.

52. Device according to claim 1, characterized in that the actuators (22) can be remotely activated via the control unit.

53. Device according to claim 1, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle α with one another.

54. Device according to claim 1, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle (α) with one another that differs from 0° and from 180°.

55. Device according to claim 1, characterized in that radial forces (Fn1; Fn2; Fn3; Fn4) exerted by actuators (22) in the same support bearing (21) form an opening angle (α) with one another that measures between 45° and 135°.

56. Device according to claim 1, characterized in that actuators (22) in support bearings (21) that are connected to the same roller (04; 06; 07; 08; 09; 11) exert a contact pressure in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17) that differs in its respective value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 at the two ends (18) of said roller (04; 06; 07; 08; 09; 11).

57. Device according to claim 56, characterized in that the contact pressure that differs in its respective value FN11; FN12; FN21; FN22; FN31; FN32 at the two ends (18) of the roller (04; 06; 07) is adjusted when the forme cylinder (12), which can be covered with multiple printing formes in its axial direction, is not completely covered with printing formes in its axial direction.

58. Device according to claim 1, characterized in that each support bearing (21) that has an actuator (22) is assigned an identifying element n.

59. Device according to claims 21 and 58, characterized in that the identifying element n for the support bearing (21) and the identifying element m for the actuator (22) together form an identification code nm.

60. Device according to claim 59, characterized in that the identification code nm is machine readable.

61. Device according to claim 1, characterized in that the control unit is designed as a mobile component.

62. Device according to claim 1, characterized in that the control unit is connected to the controllable device only when the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of a contact pressure exerted in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) is to be changed.

63. Device according to claim 1, characterized in that the control unit is connected to the controllable device only when at least one of the valves (EP1; EP2; EP3; EP4; EP5; EP6; V15; V25; V35; V45; V55; V65) is to be controlled.

64. Device according to claim 63, characterized in that the valves (EP1; EP2; EP3; EP4; EP5; EP6; V15; V25; V35; V45; V55; V65) to be controlled by the control unit are electrically or electromagnetically actuated.

65. Device according to claim 1, characterized in that, in order to set the new value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the contact pressure exerted in a selected roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), the control unit first uses at least one of the valves (V15; V25; V35; V45; V55; V65) to actuate the fixation device of the respective support bearing (21) in which the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) is to be set to a new value, so that the adjustable roller (04; 06; 07; 08; 09; 11) that is seated in this support bearing (21) can be radially displaced,
in that the control unit then actuates at least one of the proportional valves (EP1; EP2; EP3; EP4) and/or at least one of the valves (EP5; EP6), in order to set the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) in the relevant support bearing (21) to the new value,
and in that afterward the control unit again actuates the at least one previously actuated valve (V15; V25; V35; V45; V55; V65), in order to shift the fixation device of the respective support bearing (21), in which the radial force (Fn1; Fn2; Fn3; Fn4) of at least one actuator (22) has been adjusted to the calculated new value, to the operational position in which the roller (04; 06; 07; 08; 09; 11) that is seated in this support bearing (21) can no longer be radially displaced.

66. Device according to claim 1, characterized in that the control unit is equipped with a memory device.

67. Device according to claim 66, characterized in that at least one set of values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 is stored in the memory device of the control unit as a standard configuration, with each value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 corresponding to a contact pressure that is exerted by a roller (04; 06; 07; 08; 09; 11) in this printing couple (01) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on a rotational body (12; 13; 14; 16; 17) that is adjacent to the respective roller (04; 06; 07; 08; 09; 11).

68. Device according to claim 67, characterized in that the values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the standard configuration generate on the circumference of the roller (04; 06; 07; 08; 09; 11) and/or of the rotational body (12; 13; 14; 16; 17) a flattening that corresponds to a target value for the width of each roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62), in order to achieve a high level of quality for the printed product to be produced using the printing couple (01).

69. Device according to claim 1, characterized in that adjusted values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 can be reset by the control unit to the values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 for the standard configuration.

70. Device according to claim 1, characterized in that the roller (04; 06; 07; 08; 09; 11) and/or its adjacent rotational body (12; 13; 14; 16; 17) have an elastically deformable circumferential surface.

71. Device according to claim 1, characterized in that in the control unit, groups of simultaneously adjustable values FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 are formed.

72. Device according to claim 71, characterized in that the groups concern rollers (06; 07; 09; 11) in the inking unit (02) or rollers (04; 08) in the dampening unit (03).

73. Device according to claim 71, characterized in that the groups concern forme rollers (04; 06; 07) that operate in conjunction with the forme cylinder (12).

74. Device according to claim 3, characterized in that multiple rollers (04; 06; 07; 08; 09; 11), each seated in support bearings (21), are provided, with each support bearing (21) being assigned an identifying element n, wherein the controllable device that is allocated to each support bearing (21) can be selected in each case using the identifying element n.

75. Device according to claim 1, characterized in that the control unit controls each actuator (22) separately and independently of other actuators (22).

76. Device according to claim 1, characterized in that at least each roller (04; 06; 07) that operates directly in conjunction with a forme cylinder (12) has at least one actuator (22), which is controlled independently of the other actuators (22) of the rollers (04; 06; 07) that operate directly in conjunction with the forme cylinder (12).

77. Device according to claim 76, characterized in that at least three rollers (04; 06; 07) that operate directly in conjunction with the forme cylinder (12) are arranged, and in that each of these rollers (04; 06; 07) has at least one independently controlled actuator (22).

78. Device according to claim 1, characterized in that the control unit adjusts the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressures of all rollers (04; 06; 07; 08; 09; 11) that are to be adjusted in terms of their respective contact pressure, within a period of less than one minute.

79. Device according to claim 1, characterized in that the actuators (22) exert the respective contact pressure on the basis of a hydraulic, electric, motor-driven or piezoelectric action.

80. Device for adjusting contact pressure exerted on an adjacent rotational body (12; 13; 14; 16; 17) by a roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or for engaging said roller (04; 06; 07; 08; 09; 11) on the rotational body (12; 13; 14; 16; 17) and/or for disengaging said roller (04; 06; 07; 08; 09; 11) from the rotational body (12; 13; 14; 16; 17),
wherein both ends (18) of the same roller (04; 06; 07; 08; 09; 11) that is adjustable in terms of contact pressure and/or its position can be changed, and/or at least one end (18) of two different rollers (04; 06; 07; 08; 09; 11) that are each adjustable in terms of

contact pressure and/or their position can be changed, are seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein each of these support bearings (21) has at least one actuator (22) that acts on the roller (04; 06; 07; 08; 09; 11),
wherein at least one actuator (22) in a support bearing (21) is controlled by a control unit, separately and independently of an actuator (22) in another support bearing (21), characterized in that each of these support bearings (21) comprises multiple actuators (22), held in a common housing, that act on the roller (04; 06; 07; 08; 09; 11), wherein contact pressures of different values are set at different ends (18) of the same roller (04; 06; 07; 08; 09; 11) using the respective actuators (22) of the respective support bearing (21), with said actuators (22) being remotely activatable via the control unit.

81. Device according to claim 80, characterized by at least one characterizing feature of claims 2 through 8 or 10 through 38 or 40 through 51 and 53 through 79.

82. Device for adjusting contact pressure exerted on an adjacent rotational body (12; 13; 14; 16; 17) by a roller (04; 06; 07; 08; 09; 11) in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) and/or for engaging said roller (04; 06; 07; 08; 09; 11) on the rotational body (12; 13; 14; 16; 17) and/or for disengaging said roller (04; 06; 07; 08; 09; 11) from the rotational body (12; 13; 14; 16; 17),
wherein both ends (18) of the same roller (04; 06; 07; 08; 09; 11) that is adjustable in terms of contact pressure and/or its position can be changed, and/or at least one end (18) of two different rollers (04; 06; 07; 08; 09; 11) that are each adjustable in terms of contact pressure and/or their position can be changed, are seated in a support bearing (21) having a roller mount (39) that is capable of radial travel,
wherein each of these support bearings (21) has at least one actuator (22) that acts on the roller (04; 06; 07; 08; 09; 11),
wherein at least one actuator (22) in a support bearing (21) is controlled by a control unit, separately and independently of an actuator (22) in another support bearing (21), characterized in that the rotational body (12; 13; 14; 16; 17) is designed as a forme cylinder (12), wherein actuators (22) in support bearings (21) that are connected to the same roller (04; 06; 07; 08; 09; 11) exert a contact pressure in the roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on the rotational body (12; 13; 14; 16; 17) that is adjacent to said roller, which contact pressure differs in its respective value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 at the two ends (18) of said roller (04; 06; 07; 08; 09; 11), wherein the contact pressure that differs in terms of its respective value FN11; FN12; FN21; FN22; FN31; FN32 at the two

ends (18) of the roller (04; 06; 07) is adjusted when the forme cylinder (12), which can be covered with multiple printing formes in its axial direction, is not evenly or not completely covered with printing formes in its axial direction.

83. Device according to claim 82, characterized by at least one characterizing feature of claims 2 through 14 or 16 through 55 or 58 through 79.

84. Device according to claim 80 or 82, characterized in that the control unit calculates the respective value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure exerted by at least one of the rollers (04; 06; 07; 08; 09; 11) in at least one of the roller strips (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) on its adjacent rotational body (12; 13; 14; 16; 17), from the radial forces (Fn1; Fn2; Fn3; Fn4) exerted at the time by the actuators (22) in the same support bearing (21) and/or from at least a portion of the force of weight exerted by the roller (04; 06; 07; 08; 09; 11).

85. Device according to claim 80 or 82, characterized in that each roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) is designated.

86. Device according to claim 85, characterized in that using the control element of the control unit, the value FN11; FN12; FN21; FN22; FN31; FN32; FN41; FN42; FN51; FN52; FN61; FN62 of the contact pressure in a roller strip (N11; N12; N21; N22; N31; N32; N41; N42; N51; N52; N61; N62) that has been selected using its designator can be adjusted.